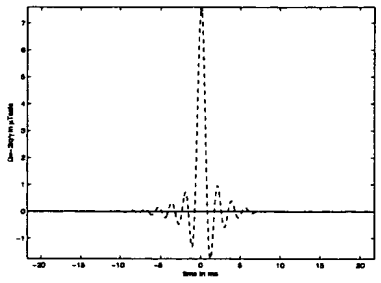
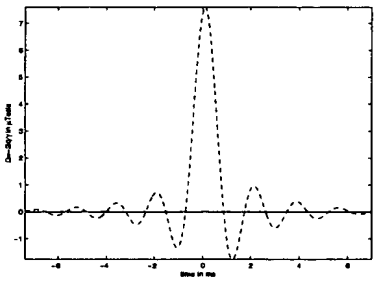
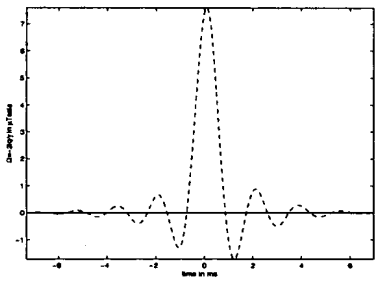


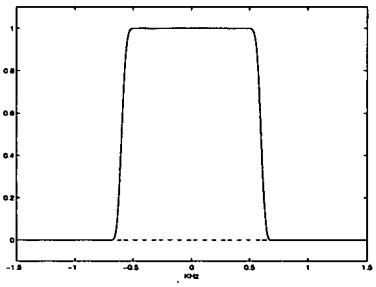
(Fig. 1a) Sharp truncation by .001% criterion.



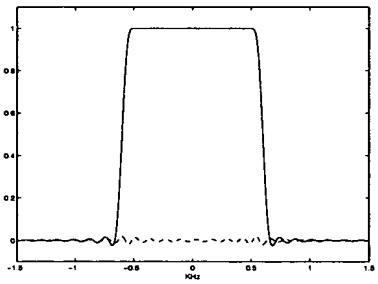
(Fig. 1b) Sharp truncation by 1% criterion.



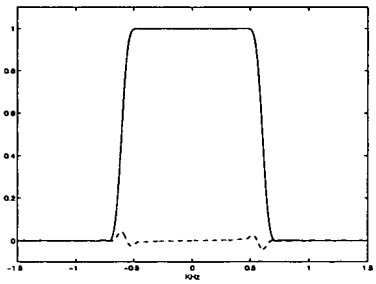
(Fig. 1c) Smooth truncation by 1% criterion.



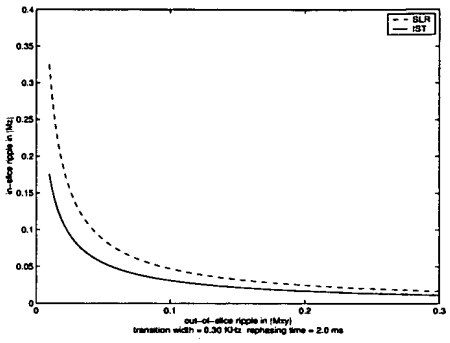
(Fig. 1d) Transverse magnetization produced by (a).



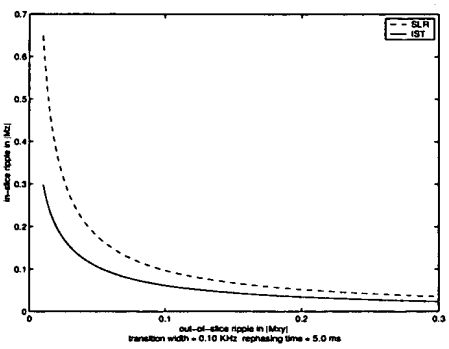
(Fig. 1e) Transverse magnetizatio produced by (b).



(Fig. 1f) Transverse magnetizatio produced by (c).



(Fig. 2a) Transition width = 0.3 KHz, rephasin t i m e = 2.0 ms



(Fig. 2b) Transition width = 0.1 KHz, rephasing t i m e = 5.0 ms

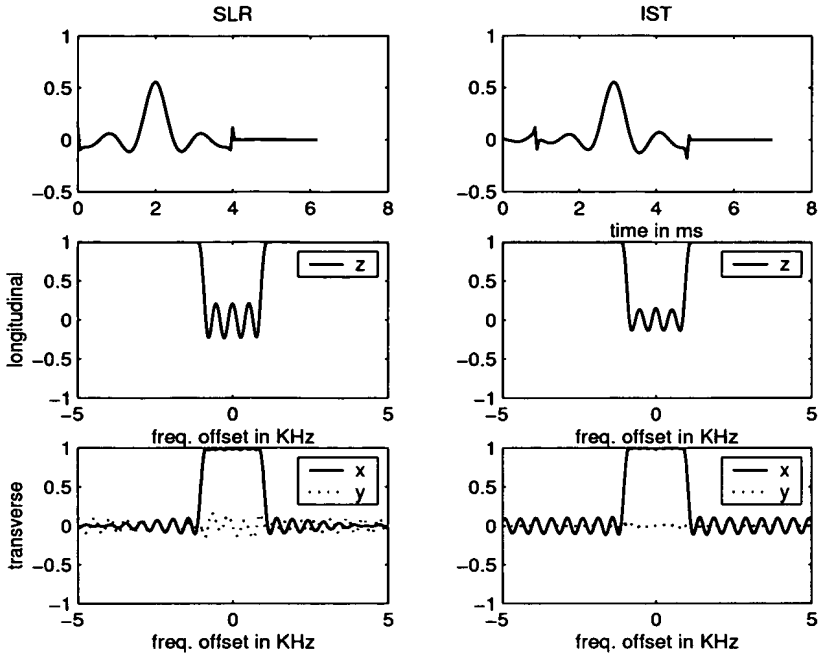


Figure 3(a)

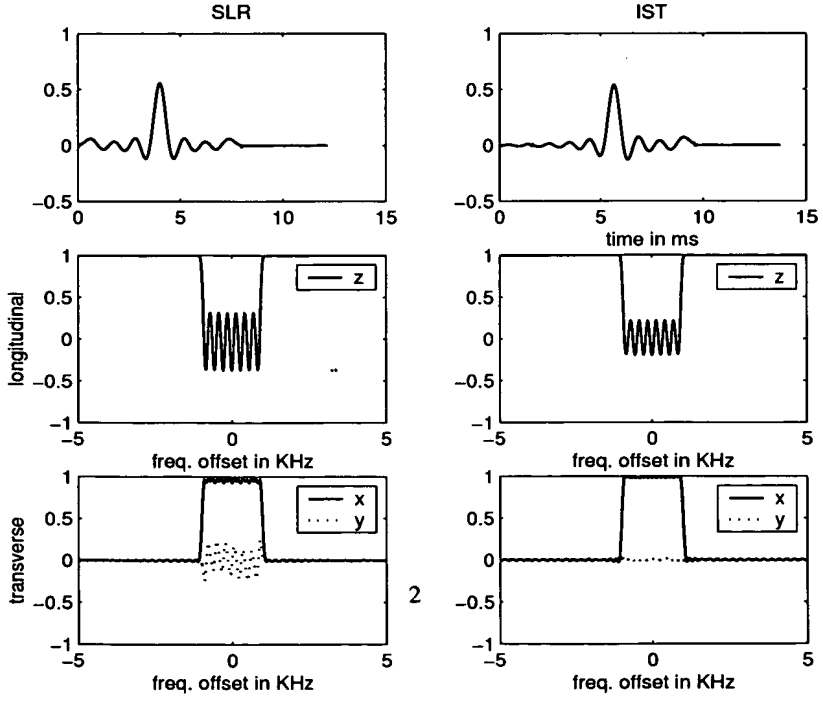
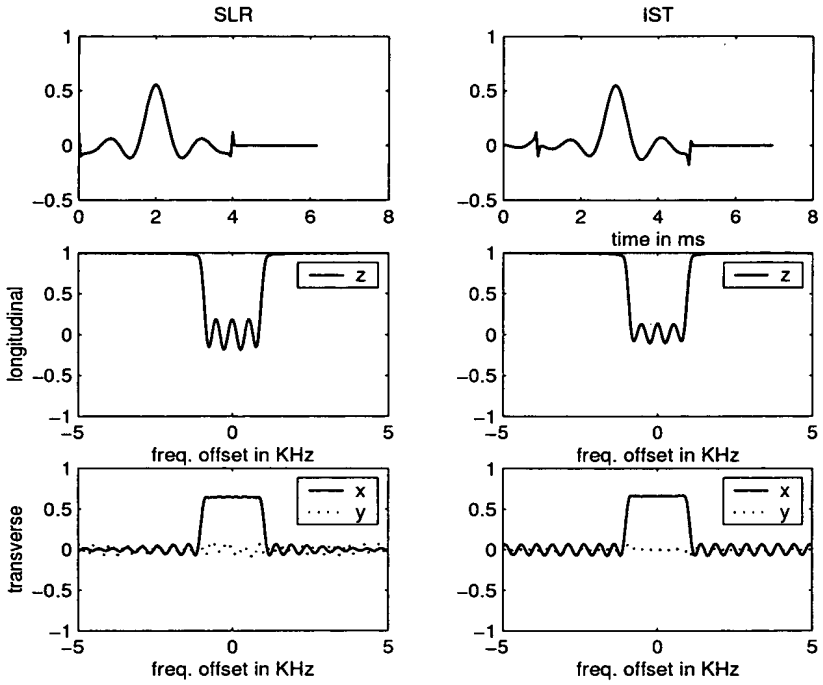
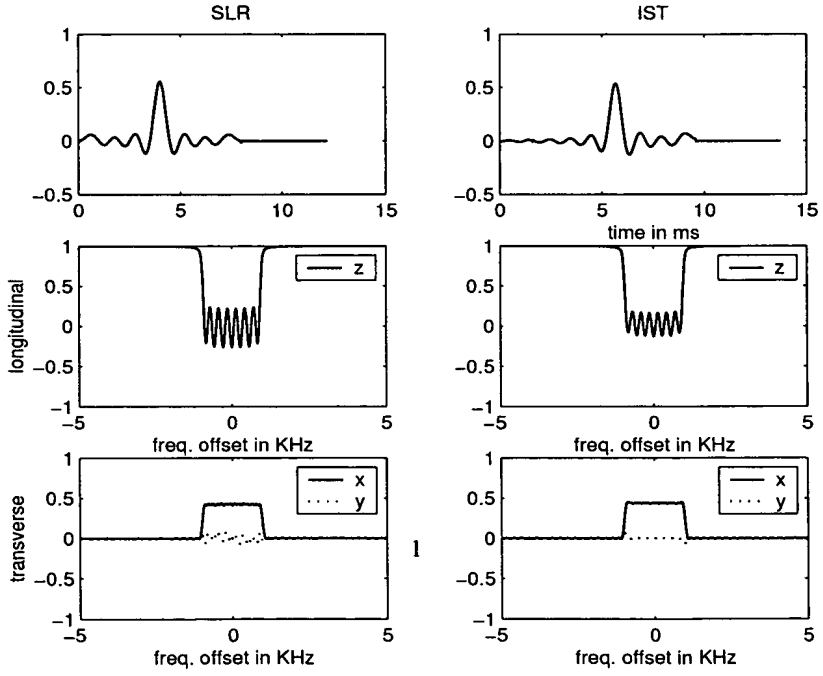


Figure 3(b)



(Fig. 4a) $T_2 = 10$ ms for a 90° pulse with 2 ms rephasing time, $\delta_2 = 0.1$, and 0.2 KHz transition width



(Fig. 4b) $T_2 = 10$ ms for a 90° pulse with 4 ms rephasing time, $\delta_2 = 0.01$, and 0.15 KHz transition width.

Figure 4

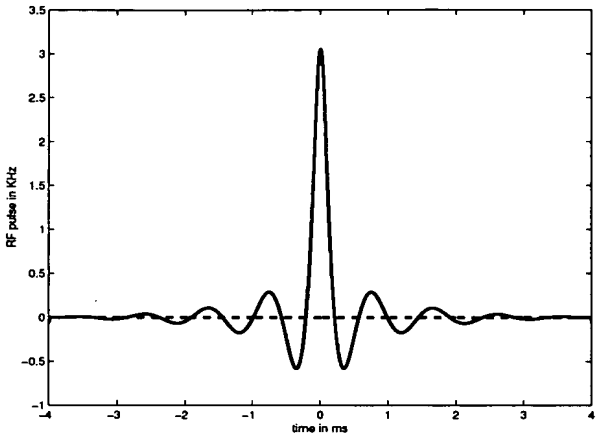
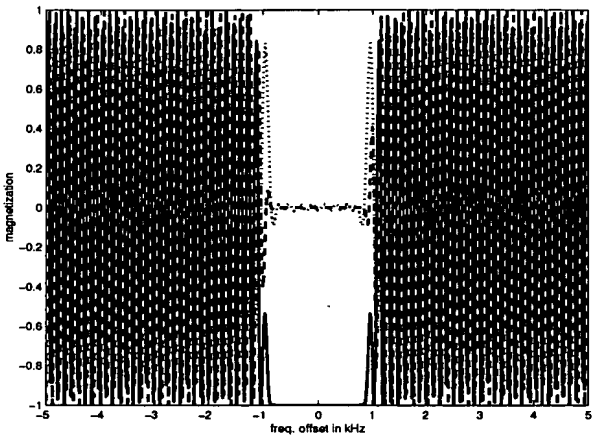


Figure 5(a)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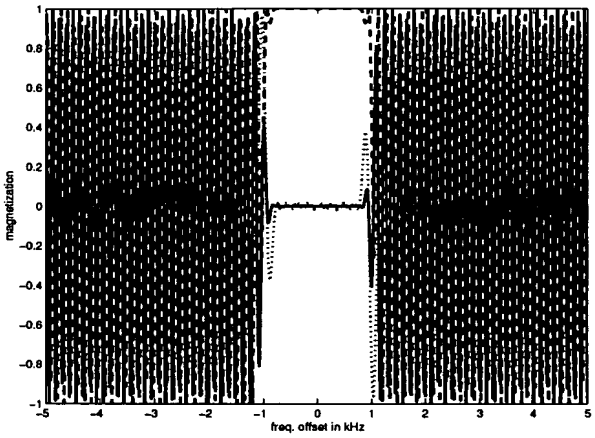
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-5
-4
-3
-2
-1
0
1
2
3
4
5

Figure 5(b)


magnetization
freq. offset in kHz
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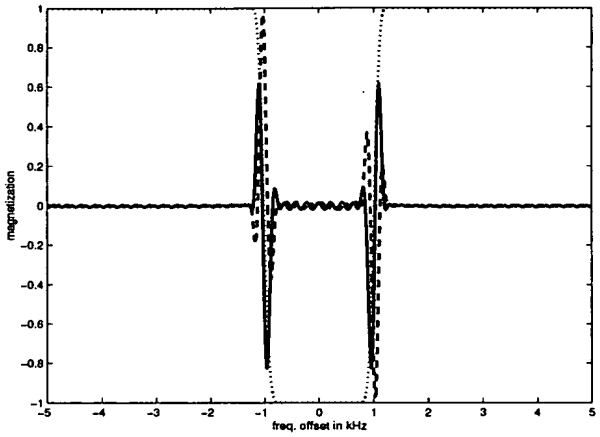
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-5
-4
-3
-2
-1
0
1
2
3
4
5

Figure 5(c)


magnetization
freq. offset in kHz
1
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0.6
0.4
0.2
0
-0.2
-0.4
-0.6
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-1
-5
-4
-3
-2
-1
0
1
2
3
4
5

Figure 5(d)

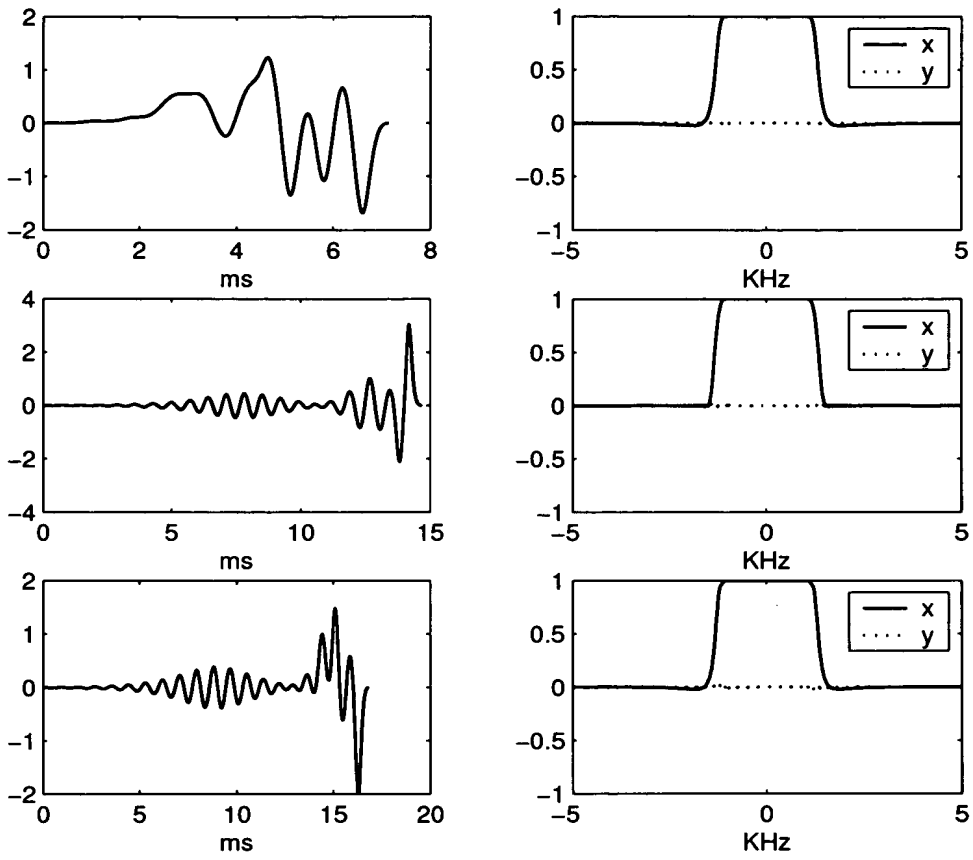
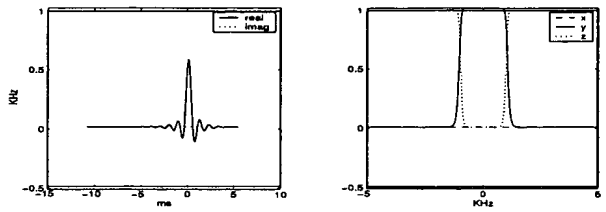
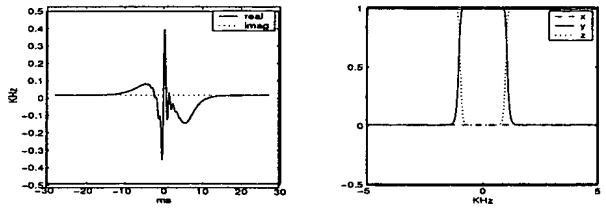


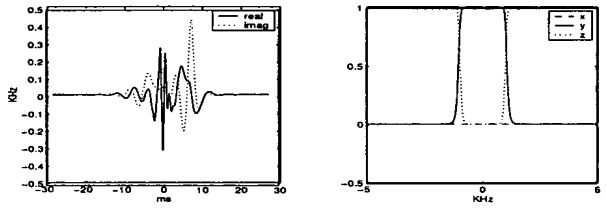
Figure 6



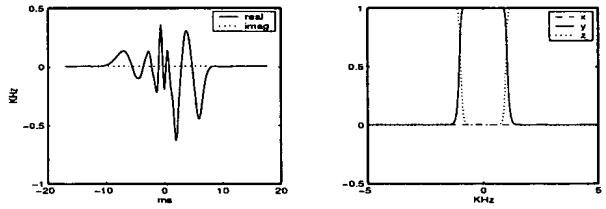
(Fig. 7A) The minimum energy pulse with magnetization profile M.



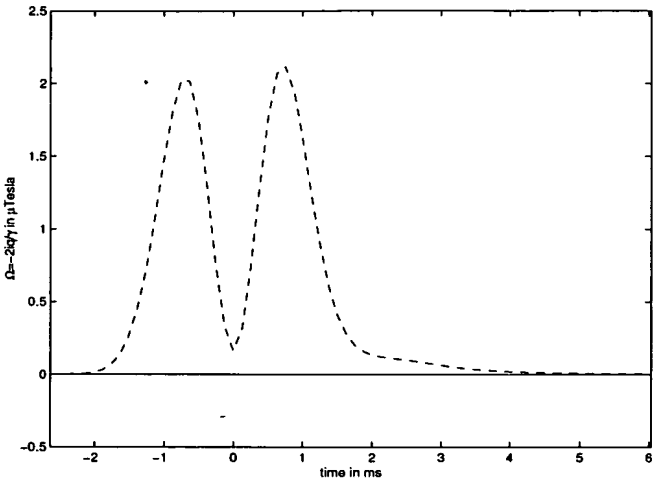
(Fig. 7b) The pulse with magnetization profile M, and a bound state at $0.5i$ with norming constant 1.0.



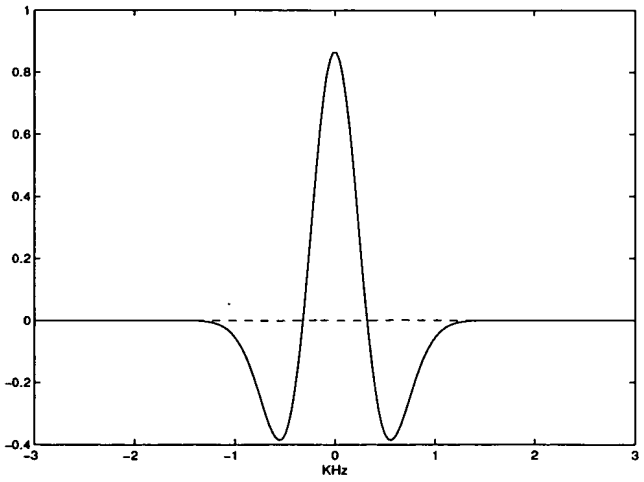
(Fig. 7c) The pulse with magnetization profile M, and bound states at $0.5i + 1.4$, and $1.0i - 1.0$, with norming constants: 1, and -10.



(Fig. 7d) The pulse with magnetization profile M, and bound states and $i - 1$, i, and $i + 1$, and norming constants 1, 2, and 1.



(Fig. 8a) Minimum energy pulse pulse.



(Fig. 8b) Transverse magnetization profile.